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1 **ABSTRACT**

2 Methods and systems are provided for synchronizing various time-stamped
3 data streams. The data streams can be synchronized to another data stream or to a
4 point of reference such as a reference clock. In one embodiment, synchronization
5 processing takes place in association with a filter graph comprising multiple
6 filters. The filter graph is configured to process multiple timestamped data
7 streams for rendering the data streams in accordance with data stream timestamps.
8 A synchronization module is provided and is associated with the filter graph
9 queries individual filters of the filter graph to ascertain input timestamp-to-output
10 timestamp mappings. The module computes adjustments that are to be made to
11 output timestamps in order to synchronize the data streams, and then instructs
12 queried filters to adjust their output timestamps in accordance with its adjustment
13 computations.
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